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## IMPORTANT SAFETY RULES

W codworking can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. Safety equipment such as guards, push sticks, hold-downs, featherboards, goggles, dust masks and hearing protection can reduce your potential for injury.But even the best guard wont make up for poor judgment, carelessness or inattention. <u>Always use common sense</u> and exercise <u>caution</u> in the workshop. If a procedure feels dangerous, don't try it. Figure out an alternative procedure that feels safer. REMEMBER: Your personal safety is your responsibility.

This machine was designed for certain applications only. Delta Machinery strongly recommends that this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted Delta to determine if it can or should be performed on the product.

> DELTA INTERNATIONAL MACHINERY CORP. MANAGER OF TECHNICAL SERVICES 246 ALPHA DRIVE PITTSBURGH, PENNSYLVANIA 15238 (IN CANADA: 644 IMPERIAL ROAD, GUELPH, ONTARIO N1H 6M7)

### WARNING: FAILURE TO FOLLOW THESE RULES M AY RESULT IN SERIOUS PERSONAL INJURY

1. FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE TOOL. Learn the tools application and limitations as well as the specific hazards peculiar to it.

2. KEEPGUARDS IN PLACE and in working order.

3. ALWAYSWEAREYEPROTECTION.

4. GROUNDALLTOOLS. If tool is equipped with threeprong plug, it should be plugged into a three-hole electrical receptacle. If an adapter is used to accommodate a twoprong receptacle, the adapter lug must be attached to a known ground. Never remove the third prong.

5. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

6. KEEPWORKAREACLEAN. Cluttered areas and benches invite accidents

7. DON TUSE IN DANGEROUS ENVIRONMENT. Don t use power tools in damp or wet locations, or expose them to rain. Keep work area well-lighted.

8. KEEP CHILDREN AND VISITORS AW AY. All children and visitors should be kept a safe distance from work area.

9. MAKEWORKSHOPCHILDPROOF with padlocks, master switches, or by removing starter keys.

10. DON T FORCE TOOL. It will do the jdb better and be safer at the rate for which it was designed.

11 USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.

12. WEARPROPERAPPAREL. No loose clothing, gloves, neckties, rings, bracelets, or other jewelry to get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.

13 ALW AYS USE SAFETY GLASSES.W ear safety glasses. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses. Also use face or dust mask if outting operation is dusty.

14. SECUREWORK. Use clamps or a vise to hold work when practical. It s safer than using your hand and frees both hands to operate tool.

15. DON TOVERREACH. Keep proper footing and balance at all times.

16. MAINTAIN TOOLS IN TO P CONDITION. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

17. DISCONNECT TOOLS before servicing and when changing accessories such as blades, bits, outters, etc.

18. USERECOMMENDEDACCESSORIES. The use of accessories and attachments not recommended by Delta may cause hazards or risk of injury to persons.

19. REDUCE THE RISK OF UNINTENTIONAL START-ING. Make sure switch is in OFF position before plugging in power cord.

20. NEVERSTANDONTOOL. Serious injury could occur if the tool is tipped or if the atting tool is accidentally contacted.

21. CHECKDAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform its intended function check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

22. DIRECTION OF FEED. Feed work into a blade or outter against the direction of rotation of the blade or outter only.

23. NEVERLEAVE TOOL RUNNING UNATTENDED. TURN POWEROFF. Don't leave tool until it comes to a complete stop.

24. DRUGS, ALCOHOL, MEDICATION. Do not operate tool while under the influence of drugs, alcohol or any medication.

25. MAKE SURE TOOL IS DISCONNECTED FROM POWER SUPPLY while motor is being mounted, connected or reconnected.

26. W ARNING: The dust generated by certain woods and wood products can be injurious to your health. Always operate machinery in well ventilated areas and provide for proper dust removal. Use wood dust collection systems whenever possible.

# IMPORTANT SAFETY RULES FOR DUST COLLECTORS

WARNING: Basic precautions should always be followed when using your dust collector. To reduce the risk of injury, electrical shock or fire, comply with the safety rules listed below:

1. READ and understand the instruction manual before operating the dust collector.

2. DONOT leave the dust collector plugged into the electrical outlet. Unplug dust collector from the outlet when not in use and before servicing, changing bags, unclogging and cleaning.

3. ALW AYS turn the power switch OFF before unplugging the dust collector.

4. WARNING: TO REDUCE THE RISK OF ELECTRI-CALSHOCK, do not use outdoors or on wet surfaces. Use for dry pickup only!

5. FOLLOW all electrical and safety codes, including the National Electric Code (NEC) and the Occupational Safety and Health Regulations (OSHA). All electrical connections and wiring should be made by qualified personnel only.

6. D O N O T use the dust collector to pick up flammable or combustible liquids, such as gasoline. NEVER use the dust collector near any flammable or combustible liquids.

7. USE the dust collector to pick up wood materials only.DONOT use the dust collector to pick up metal shavings, dust, or parts

8. NEVER use the dust collector to dissipate fumes or smoke. NEVER pick up anything that is burning or smoking, such as cigarettes, matches or hot ashes.

9. USE only as described in this manual. USE only accessories recommended by Delta.

10. D O N O T pull the dust collector by the power cord. NEVER allow the power cord to come in contact with sharp edges, hot surfaces, oil or grease.

11. DONOT unplug the dust collector by pulling on the power cord. ALWAYS grasp the plug, not the cord.

12.  ${\tt D} \mbox{ O} \mbox{ N} \mbox{ O} \mbox{ T}$  handle the plug or dust collector with wet hands.

13. REPLACE a damaged cord immediately.DONOT use a damaged cord or plug. If the dust collector is not operating properly, or has been damaged, left outdoors or has been in contact with water, return it to an Authorized Service Center for service.

14. DONOT use the dust collector as a toy.DONOT use near or around children.

15. DONOT insert fingers or foreign objects into the dust intake ports. Keep hair, loose clothing, fingers, and all body parts away from openings and moving parts of the dust collector.

16. D O N O T use the dust collector without the filter bag and dust collection bag in place and properly secured.

17. D O N O T operate the dust collector with unused dust intake ports uncapped. A LW AYS cover exposed dust intake ports

18. PERIODICALLY INSPECT dust and filter bags for any cuts, mips or tears. NEVER operate the dust collector with a damaged bag or vacuum hose.

19. The dust collector is designed for home use or light commercial duty ONLY!

20. CONNECT dust collector to a properly grounded outlet only. See grounding instructions.

# SAVE THESE INSTRUCTIONS

# UNPACKING

Carefully unpack the dust collector from the shipping container.

W ARNING: D O NOT CONNECT THE DUST COLLECTO R TO THE POWER SOURCE UNTIL THE MACHINE IS COMPLETELY ASSEMBLED AND YOU HAVE READ AND UNDERSTAND THE ENTIRE OWNER SMANUAL.

Figures 2 illustrates the components after they are removed from the shipping container.

# UNPACKING

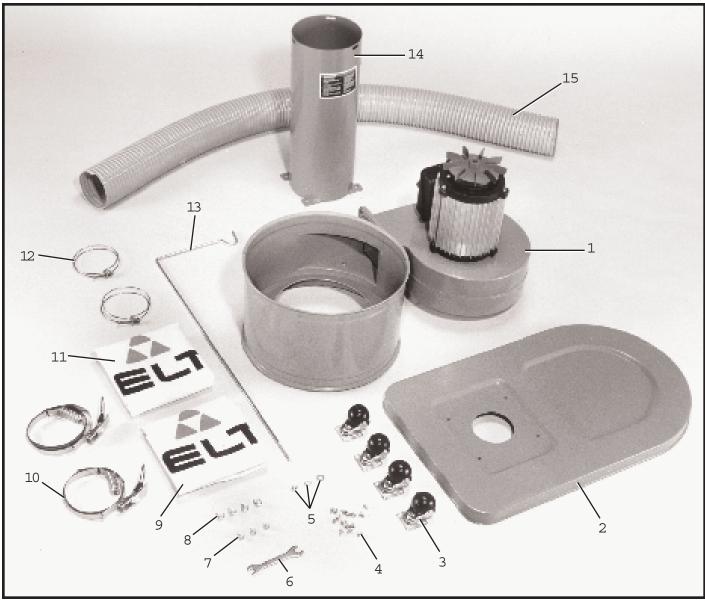


Fig. 2

- 1 Motor and Blower assembly
- 2 -Base
- 3 Casters (4)
- 4 10-24 x 3/8 pan head screws (16)
- 5 -5/16-18 hex nut, lockwasher and flat washer for mounting filter bag support rod
- 6 Open-end wrench
- 7 -1/4-20 x 1/2 hex head screws for mounting support tube to motor and blower assembly (3)

- 8 5/16-18 x 1/2 hex head screws for mounting motor and blower assembly to base (4)
- 9 Dust collection bag
- 10 Dust collection and filter bag clamps (2)
- 11 Filter bag
- 12 Hose clamps (2)
- 13 Filter bag support rod
- 14 Support tube
- 15 Dust intake hose

# ASSEMBLY

### ASSEMBLING CASTERS TO BASE

Turn base (A) Fig. 3, over.Align four holes (B) in caster with holes at the corner of the base and assemble caster (C) to base with four pan head screws (D). Assemble the remaining three casters (C) Fig. 4, to the base in the same manner.

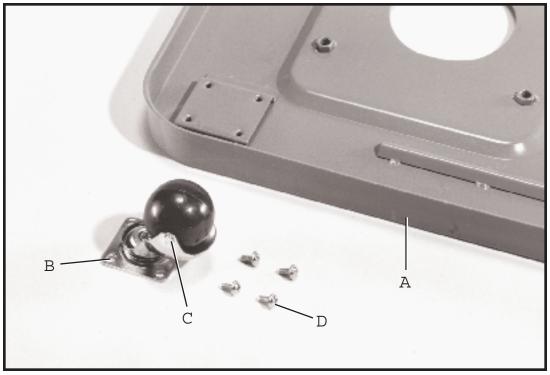


Fig. 3



Fig. 4

## ASSEMBLING SUPPORT TUBEAND MOTORANDBLOWER ASSEMBLY TO BASE

1. Place the motor and blower assembly (A) Fig. 5, upside down on a sturdy supporting surface.

2. Find the support tube (B) Fig. 5, and three 1/2 indhlong hex head screws (C).

3. Carefully place support tube (B) Fig. 6, over the motor impellens (D). Align three holes (E) Fig. 6, in support tube (B) with three holes in the motor casting, two of which are shown at (F) and fasten support tube (B) to motor and blower assembly (A) with three 1/2 inch-long screws (C) Fig. 7. Warning label (K) Fig. 7, should be positioned over the on/off switch (L) when support tube (B) is properly positioned as shown. NOTE: Do not tighten three screws, two of which are shown at (C) Fig. 8, at this time.

4. Carefully turn motor and blower assembly (A) Fig. 8, with support tube (B) attached, right side up. Align the four holes in the feet of support tube (B) Fig. 8, with four threaded holes (K) in base and fasten motor and blower assembly (A) Fig. 9, to base (L) with four  $5/16-18 \times 1/2$  hex head screws, three of which are shown at (M).

5 IMPORTANT: Make certain motor and blower assembly (A) Fig. 9, is parallel with base (L). If adjustment is necessary, notate motor (N) on support tube (B) and tighten three mounting screws, one of which is shown at (C).

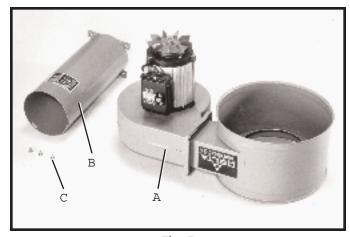


Fig. 5

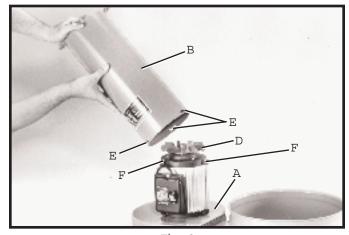
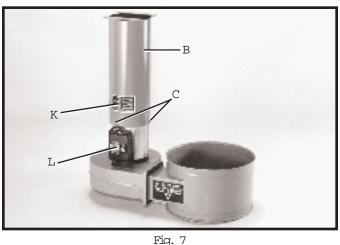


Fig. 6



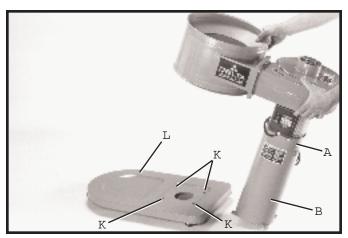


Fig. 8

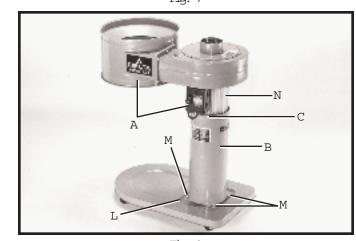
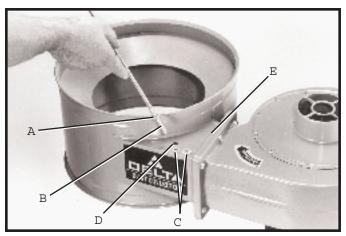


Fig. 9

## ASSEMBLING FILTER AND DUST COLLECTION BAGS TO DRUM

1. Thread 5/16 hex locknut (A) Fig. 10, onto the end of bag support rod (B). Place lockwasher and flat washer (C) Fig. 10, onto bag support rod (B). Thread rod into hole (D) and tighten locknut (A) against motor and blower assembly (E) to hold support rod (B) upright. Height of support rod can be adjusted after the filter bag is in place.





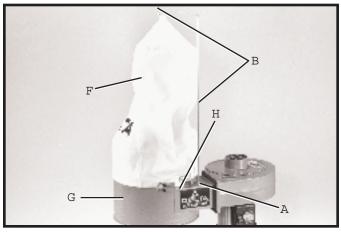
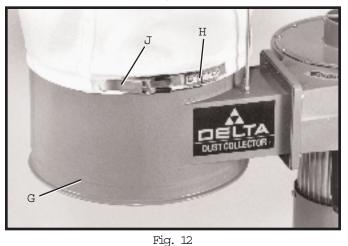


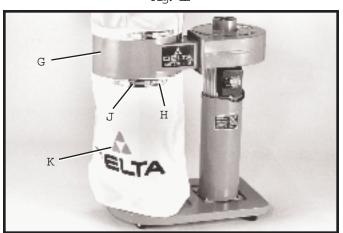
Fig. 11



2. Hook the loop on the top of filter bag (F) Fig. 11, onto the end of support rod (B).

3. Rosition open end of filter bag (F) Fig. 11, over the lip of drum (G). NOTE: It may be necessary to adjust the height of the drum support rod at this time. If adjustment is necessary, loosen locknut (A) Fig. 11, and rotate support rod (B) as needed to obtain proper rod height to support filter bag (F). Tighten locknut (A) Fig. 11. Insert locking band (H) through the hem of filter bag (F) and fasten filter bag to drum by locking clamp (J) as shown in Fig. 12. IMPORTANT: Make certain band (H) is positioned in the channel of drum (G) before locking clamp (J).

4. Insert remaining locking band (H) Fig. 13, through hem of dust collection bag (K). Position open end of bag over the lip of drum (G) and fasten with locking clamp (J). NOTE: Make certain locking band (H) is positioned in the channel of drum before locking clamp (J).



## ASSEMBLING DUST INTAKE HOSE TO MOTORAND BLOWERASSEMBLY

The dust collector is supplied with a 4 flexible dust it ake hose.

To assemble the dust collection hose to the motor and blower assembly, loosely attach hose clamp (A) Fig. 14, around one end of flexible hose (B) and assemble the hose to dust intake port (C). Tighten hose clamp (A) Fig. 15, to hold flexible hose (B) on the blower and motor assembly (D). Assemble the remaining clamp to the other end of the flexible hose and to the woodworking machine. IMPORTANT: Do not operate the dust collector without the flexible hose assembled to the dust intake port.

Always disconnect dust collector from the power source before connecting or disconnecting an air intake hose to or from the blower and motor assembly.

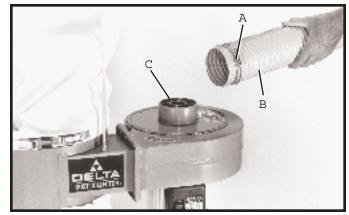


Fig. 14

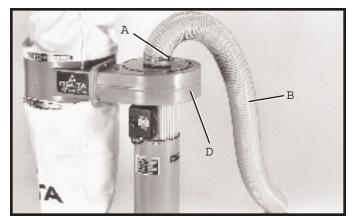


Fig. 15

# CONNECTING MACHINE TO POWER SOURCE

### POWER CONNECTIONS

A separate electrical circuit should be used for your tools. This circuit should not be less than #12 AWG and should be protected with a 20 amp, time lag fuse. Have a certified electrician repair or replace damaged or worn cord immediately. Before connecting the motor to the power line, make certain the switch is in the OFF position and be sure that the electric current is of the same characteristics as stamped on the motor nameplate. All line connections should make good contact. Running on low voltage will damage the motor.

WARNING: DONOT EXPOSE THE DUST COLLECTOR TO RAIN OR OPERATE THE MACHINE IN DAMP LOCATIONS.

#### MOTOR SPECIFICATIONS

The motor of the Model 50-840 Dust Collector is shipped wired for 120 Vdts. Before connecting the dust collector to the power source, make certain the switch is in the OFF position.

#### GROUNDING INSTRUCTIONS

W ARNING: THIS TOOL MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.

This dust collector must be grounded. If it should malfunction or break down, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This dust collector is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate cutlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING: Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the dust collector. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.

#### 120 VOLT, SINGLE PHASE OPERATION

This tool must be grounded while in use to protect the operator from electric shock. The motor recommended for use with your dust collector is shipped wired for 120 Volt, Single Phase, and is equipped with an approved 3-conductor cord and 3-prong grounding type plug to fit the proper grounding type receptacle, as shown in Fig. 16. The green conductor in the cord is the grounding wire. Never connect the green wire to a live terminal.

A temporary adapter, shown in Fig. 17, is available for connecting 3-prong grounding type plugs to 2-prong receptacles if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. THIS ADAPTER IS NOT APPLICABLE IN CANADA. The green-colored rigid ear, lug, etc., extending from the adapter, is the grounding means and must be connected to a permanent ground such as to a properly grounded outlet box, as shown in Fig. 17. Whenever the adapter is used, it must be held in place with a metal screw.

#### 240 VOLT, SINGLE PHASE OPERATION

The motor supplied with your dust collector is a dual voltage 120/240 volt motor. The dust collector motor is shipped ready-to-run for 120 volt operation; however, it may be converted for 240 volt operation.

The conversion of your dust collector for 240 volt operation must be done by qualified electrical personnel. Should you desire to have your dust collector converted for 240 volts, take your dust collector to your local Authorized Delta Service Center. Call 1-800-438-2486 for the location of the nearest Authorized Service Center. The Service Center will be able to convert your dust collector for 240 volts by (a) re-wiring the motor for 240 volts; (b) installing a 240 volt attachment plug to the power supply cord; and (c) replacing the single pole on/off switch shipped with your dust collector with a double pole switch.

The dust collector with a 240 volt plug should only be connected to an outlet having the same configuration as the plug illustrated in Fig. 18. No adapter is available or should be used with the 240 volt plug.

## EXTENSION CORDS

Use proper extension cords. Make sure your extension cord is in good condition and is a 3-wire extension cord which has a 3-prong grounding type plug and a 3-hole receptacle which will accept the tool s plug. When using an extension cord, be sure to use one heavy enough to carry the current of the dust collector. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Fig. 19, shows the correct size to use depending on cord length and voltage. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

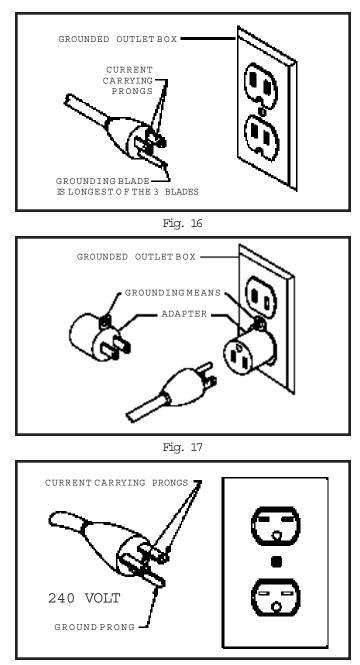


Fig. 18

ASA PRECAUTION IN ALL CASES, MAKE CERTAIN THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED. IF YOUARE NOT SURE, HAVE A CERTI-FIED ELECTRICIAN CHECK THE RECEPTACLE.

TO TAL LENGTH O F CORD IN FEET		GAGEOFEXTENSION CORDTOUSE
120 VOLT	240 VOLT	
25	50	18 AW G
50	100	16 AW G
100	200	14 AW G
150	300	12 AW G

# OPERATING CONTROLS

FOR OPERATOR SAFETY, BEFORE OPERATING THE MACHINE, MAKE CERTAIN THAT THE DUST INTAKE HOSE IS ALW AYS ATTACHED TO THE DUST INTAKE PORT.THE ROTATING FAN LOCATED INSIDE THE BLOWER HOUSING IS ACCESSIBLE THROUGH THE DUST IN-TAKE PORT AND CAN BE HAZARDOUS. ALW AYS WEAR PROPER APPAREL. DO NOT WEAR JEWELRY AND KEEP FINGERS AND ALL FOREIGN OBJECTS OUT OF THE DUST INTAKE PORT.FOLLOW THE SAFETY RULES EARLIER IN THIS MANUAL.

### ON/OFF SWITCH

The on/off switch is located on the side of the motor. To turn the dust collector ON, push switch toggle (A) Fig. 20, upward. To turn the dust collector OFF, push switch toggle (A) downward.

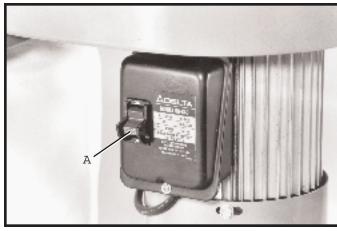


Fig. 20

### LOCKING SWITCH IN THE OFF POSITION

We suggest that when the dust collector is not in use, that the switch (B) be locked in the OFF position. This can be done by grasping the switch toggle (A) Fig. 21, and pulling it out of the switch (B) as shown. With the switch toggle (A) Fig. 21, removed, the switch will not operate. However, should the switch toggle (A) be removed while the dust collector is running, it can be turned OFF once, but cannot be restarted without inserting the switch toggle.

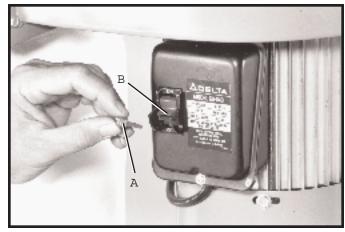


Fig. 21

# MAINTENANCE

NOTE: Before any maintenance or service is performed, be sure the unit is disconnected from the power source to prevent accidental starting. All servicing other than the items recommended in this Instruction Manual should be performed by an authorized service facility.

When storing your dust collector, remove power supply cord from the electrical outlet. Coil the cord neatly and place it off the floor on the base of the dust collector to eliminate potential cord damage.

#### MOTO R MAINTENANCE

Removing dust and dirt: Blow off motor with low pressure air to remove dust or dirt. Air pressure above 50 P.S.I. should not be used as high pressure may damage insulation and blow dirt under loosened tape. The operator performing this cleaning function should always wear eye protective goggles. Dust can cause excessive insulation temperatures.

